

**"RESTORATION AND IMPROVEMENTS OF
BALANCE ROADS OF AMS LAYOUT,
VENUGOPAL LAYOUT, AKASHVANI
LAYOUT, CHIKKABETTAHALLI LAYOUT,
MAHI LAYOUT AND SURROUNDING AREAS
IN WARD NO.03 OF YELAHANKA NEW
TOWN SUB DIVISION(PACKAGE NO.04)."**

Quality Control Reports



QC ABSTRACT

NAME OF WORK: Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1

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7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days)	8 set /250-300 cum	259.21	8	8
10	RCC(M20)	Compressive Strength(7days)	58 set /2700-2800 cum	2608.59	58	58
10	GSB	SIEVE ANALYSIS	One Test		1	1
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-03-07-06

Date: 18-02-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.59	—
4	Bulk Density(Loose) (Kg/l)	1.51	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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CP-2022-03-07-06

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-03-07-06 Date: 18-02-22
 Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
 Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
 Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
 Date of Receipt : 16-02-22
 Sample Type : 40mm down size coarse aggregate
 Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
 IS: 2386 :1963(Part - 1,3,4) RA2011
 IS 2386 Part 1: Particle Size and Shape
 IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
 IS 2386 Part 4: Mechanical Properties
 Date of test : 16-02-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	754	754	5.0	95.0	90-100
3	20 mm	6592	7346	49.0	51.0	30-70
4	10 mm	4759	12105	80.7	19.3	10-35
5	4.75 mm	2595	14700	98.0	2.0	0-5
6	Pan	300	15000	100.0	0	---

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-03-07-06 Date: 26-02-22
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 22-02-22
Sample Type /Size : Precast Cover Slab 100 mm Thick
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 22/02/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.37	100.48	1.296	4461	80.2	18.0	16.7	20.9
2	Cover Slab-2	75.42	100.52	1.284	4467	82.9	18.6	17.3	21.6
3	Cover Slab-3	75.38	100.37	1.285	4462	81.5	18.3	17.0	21.2

The results obtained are satisfactory as per standard requirements.

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R. KARTHIK-RECHAN
Authorized Signatory
Quality Manager



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 09/03/2022

Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).

Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22

Date of Receipt : 04-03-22

Customer ID : Drain Bottom Raft - AMS Layout 4th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft - AMS Layout 4th Main Road	M20	02/03/2022	09/03/2022	151.14 X 151.54 X 151.01	22904	8.445	424.7	18.5	18.3
2	Drain Bottom Raft - AMS Layout 4th Main Road	M20	02/03/2022	09/03/2022	150.95 X 149.28 X 150.37	22534	8.304	413.2	18.3	
3	Drain Bottom Raft - AMS Layout 4th Main Road	M20	02/03/2022	09/03/2022	151.30 X 150.59 X 149.15	22785	9.095	411.8	18.1	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 11/03/2022

Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).

Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22

Date of Receipt : 05-03-22

Customer ID : Drain Bottom Raft - AMS Layout 5th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 10/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft - AMS Layout 5th Cross Road	M20	03/03/2022	10/03/2022	149.80 X 149.23 X 149.71	22355	8.614	406.2	18.2	18.2
2	Drain Bottom Raft - AMS Layout 5th Cross Road	M20	03/03/2022	10/03/2022	151.43 X 150.86 X 151.28	22846	8.769	419.6	18.4	
3	Drain Bottom Raft - AMS Layout 5th Cross Road	M20	03/03/2022	10/03/2022	151.06 X 151.41 X 149.20	22872	8.146	414.6	18.1	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-2022-03-07-06 Date: 05/03/2022

Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).

Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - AMS Layout 6th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft - AMS Layout 6th Cross Road	M20	26/02/2022	05/03/2022	149.89 X 151.60 X 149.35	22724	8.710	428.2	18.8	18.5
2	Drain Bottom Raft - AMS Layout 6th Cross Road	M20	26/02/2022	05/03/2022	149.29 X 151.26 X 149.93	22582	8.907	407.6	18.0	
3	Drain Bottom Raft - AMS Layout 6th Cross Road	M20	26/02/2022	05/03/2022	151.97 X 149.71 X 150.10	22750	8.362	421.2	18.5	

• The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 08/03/2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 02-03-22
Customer ID : Drain Bottom Raft - AMS Layout 9th Cross Road
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft - AMS Layout 9th Cross Road	M20	28/02/2022	07/03/2022	151.61 X 149.91 X 149.38	22728	9.071	424.1	18.7	18.6
2	Drain Bottom Raft - AMS Layout 9th Cross Road	M20	28/02/2022	07/03/2022	150.89 X 150.52 X 150.71	22713	9.010	421.6	18.6	
3	Drain Bottom Raft - AMS Layout 9th Cross Road	M20	28/02/2022	07/03/2022	149.56 X 149.82 X 150.37	22407	8.183	417.9	18.6	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 12/03/2022

Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).

Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22

Date of Receipt : 07-03-22

Customer ID : Drain Side Wall-AMS Layout 2nd Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall-AMS Layout 2nd Main Road	M20	04/03/2022	11/03/2022	151.29 X 150.84 X 149.92	22820	8.521	411.7	18.0	18.5
2	Drain Side Wall-AMS Layout 2nd Main Road	M20	04/03/2022	11/03/2022	149.34 X 150.06 X 150.36	22409	8.275	425.0	19.0	
3	Drain Side Wall-AMS Layout 2nd Main Road	M20	04/03/2022	11/03/2022	150.03 X 150.34 X 149.61	22556	8.591	414.6	18.4	

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 12/03/2022

Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).

Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22

Date of Receipt : 07-03-22

Customer ID : Drain Side Wall-AMS Layout 7th A Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CI.5

Date of test : 11/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall-AMS Layout 7th A Cross Road	M20	04/03/2022	11/03/2022	150.80 X 151.56 X 149.59	22855	8.456	414.5	18.1	18.2
2	Drain Side Wall-AMS Layout 7th A Cross Road	M20	04/03/2022	11/03/2022	150.91 X 149.38 X 149.63	22542	8.313	407.4	18.1	
3	Drain Side Wall-AMS Layout 7th A Cross Road	M20	04/03/2022	11/03/2022	150.83 X 150.47 X 149.81	22695	8.783	419.7	18.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 12/03/2022

Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).

Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22

Date of Receipt : 08-03-22

Customer ID : Drain Side Wall - AMS Layout 8th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2022

SL. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall - AMS Layout 8th Cross Road	M20	05/03/2022	12/03/2022	151.03 X 149.11 X 151.01	22520	8.660	420.4	18.7	18.7
2	Drain Side Wall - AMS Layout 8th Cross Road	M20	05/03/2022	12/03/2022	149.93 X 150.74 X 150.62	22601	8.297	415.5	18.4	
3	Drain Side Wall - AMS Layout 8th Cross Road	M20	05/03/2022	12/03/2022	149.18 X 150.18 X 151.94	22404	8.503	424.4	18.9	

The results obtained are satisfactory as per standard requirements.

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 05/03/2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 28-02-22
Customer ID : Drain Side Wall - Mahi Layout Main Road
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall - Mahi Layout Main Road	M20	26/02/2022	05/03/2022	151.10 X 149.09 X 149.21	22528	8.230	415.2	18.4	18.7
2	Drain Side Wall - Mahi Layout Main Road	M20	26/02/2022	05/03/2022	151.35 X 150.97 X 150.02	22850	8.820	433.3	19.0	
3	Drain Side Wall - Mahi Layout Main Road	M20	26/02/2022	05/03/2022	151.17 X 150.51 X 150.14	22753	8.346	423.8	18.6	

* The results obtained are satisfactory as per standard requirements.

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as per standard requirements.
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 07/03/2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 02-03-22
Customer ID : Drain Side Wall - Muneshwara Layout Cross Road I
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall - Muneshwara Layout Cross Road I	M20	28/02/2022	07/03/2022	150.27 X 150.03 X 151.03	22545	8.679	421.7	18.7	18.6
2	Drain Side Wall - Muneshwara Layout Cross Road I	M20	28/02/2022	07/03/2022	151.94 X 149.40 X 151.71	22700	8.905	424.5	18.7	
3	Drain Side Wall - Muneshwara Layout Cross Road I	M20	28/02/2022	07/03/2022	149.61 X 151.74 X 150.58	22701	8.381	419.6	18.5	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 08/03/2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 03-03-22
Customer ID : Drain Side Wall - Muneshwara Layout Cross Road 4
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 08/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall - Muneshwara Layout Cross Road 4	M20	01/03/2022	08/03/2022	150.54 X 151.97 X 151.14	22877	9.044	433.7	19.0	18.6
2	Drain Side Wall - Muneshwara Layout Cross Road 4	M20	01/03/2022	08/03/2022	149.40 X 149.80 X 150.96	22381	8.660	413.6	18.5	
3	Drain Side Wall - Muneshwara Layout Cross Road 4	M20	01/03/2022	08/03/2022	149.45 X 151.41 X 149.07	22629	8.986	413.8	18.3	

The results obtained are satisfactory as per standard requirements.

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R KARTHIK-RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/03/2022

Lab ID : CP-2022-03-07-06
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 04-03-22
Customer ID : Drain Side Wall - Muneshwara Layout Cross Road 4
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 09/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall - Muneshwara Layout Cross Road 4	M20	02/03/2022	09/03/2022	149.16 X 149.34 X 151.63	22276	8.389	413.3	18.6	18.4
2	Drain Side Wall - Muneshwara Layout Cross Road 4	M20	02/03/2022	09/03/2022	150.49 X 150.32 X 151.92	22621	8.976	417.8	18.5	
3	Drain Side Wall - Muneshwara Layout Cross Road 4	M20	02/03/2022	09/03/2022	150.57 X 150.33 X 151.16	22636	8.364	412.8	18.2	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 04-03-22
Customer ID : Culvert Bottom Raft - AMS Layout 3rd Cross Road
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 09/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Raft AMS Layout 3rd Cross Road	M20	02/03/2022	09/03/2022	149.84 X 150.81 X 149.77	22599	9.004	406.9	18.0	18.4
2	Culvert Bottom Raft AMS Layout 3rd Cross Road	M20	02/03/2022	09/03/2022	149.56 X 149.20 X 149.80	22314	8.223	418.8	18.8	
3	Culvert Bottom Raft AMS Layout 3rd Cross Road	M20	02/03/2022	09/03/2022	151.89 X 151.41 X 151.54	22999	8.155	427.1	18.6	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 15/03/2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 10-03-22
Customer ID : Copping Concrete - Muneshwara Layout Cross Road 4
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 14/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete - Muneshwara Layout Cross Road 4	M20	07/03/2022	14/03/2022	149.74 X 150.61 X 151.81	22552	8.852	407.3	18.1	18.2
2	Copping Concrete - Muneshwara Layout Cross Road 4	M20	07/03/2022	14/03/2022	150.11 X 150.37 X 149.83	22572	8.386	413.7	18.3	
3	Copping Concrete - Muneshwara Layout Cross Road 4	M20	07/03/2022	14/03/2022	150.05 X 150.05 X 151.32	22515	8.134	410.1	18.2	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-06 Date: 19/03/2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 14-03-22
Customer ID : Kerb PCC- Mahi Layout 1st Main Road
Sample Type /Size : 150X150X150 mm
Sample grade/Age : 1:2:4(M15) / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5
Date of test : 19/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Kerb PCC- Mahi Layout 1st Main Road	1:2:4(M15)	12/03/2022	19/03/2022	150.72 X 150.33 X 151.97	22659	8.822	283.5	12.5	12.3
2	Kerb PCC- Mahi Layout 1st Main Road	1:2:4(M15)	12/03/2022	19/03/2022	150.75 X 150.70 X 150.28	22718	8.378	273.8	12.1	
3	Kerb PCC- Mahi Layout 1st Main Road	1:2:4(M15)	12/03/2022	19/03/2022	149.76 X 150.39 X 151.72	22523	8.424	275.6	12.2	

The results obtained are satisfactory as per standard requirements.

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Sig.....
Date.....
R KARTHIK-RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2022-03-07-06 Date: 12-03-2022
Address : Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 10-03-2022
Type of Mix : GSB (Granular Sub Base)
Date of test : 10-03-2022
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	375	375	3.8	96.3	80-100
26.5	1740	2115	21.2	78.9	55-90
9.5	2012	4127	41.3	58.7	35-65
4.75	1452	5579	55.8	44.2	25-50
2.36	2685	8264	82.6	17.4	10-20
0.85	802	9066	90.7	9.3	2-10
0.425	477	9543	95.4	4.6	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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CP-RW-2022-03-07-06
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011))

Lab ID	: CP-RW-2022-03-07-06	Date: 12-03-2022
Address	Yelahanka New Town Sub Division, BBMP, Bangalore.	
Project Name	Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).	
Agency	Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024	
Customer Reference	BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22	
Date of Receipt	10-03-2022	
Type of Mix	GSB (Granular Sub Base)	
Date of test	10-03-2022	
Oven Dry Weight	10000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	255	255	2.6	97.5	80-100
26.5	1655	1910	19.1	80.9	55-90
9.5	2075	3985	39.9	60.2	35-65
4.75	1477	5462	54.6	45.4	25-50
2.36	2745	8207	82.1	17.9	10-20
0.85	901	9108	91.1	8.9	2-10
0.425	556	9664	96.6	3.4	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

- The results obtained are satisfactory as per standard requirements.

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KARTHIK RECHAN
Authorized Signatory
Quality Manager



TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2022-03-07-06 Date: 14-03-2022
Address :
Project Name : Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Customer Reference : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Date of Receipt : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Type of Mix : 11-03-2022
Date of test : GSB (Granular Sub Base)
Oven Dry Weight : 11-03-2022 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	242	242	2.4	97.6	80-100
26.5	1689	1931	19.3	80.7	55-90
9.5	2100	4031	40.3	59.7	35-65
4.75	1388	5419	54.2	45.8	25-50
2.36	2801	8220	82.2	17.8	10-20
0.85	926	9146	91.5	8.5	2-10
0.425	524	9670	96.7	3.3	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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14/03/2022
R. KARTHIK RECHAN
14/03/2022

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Sig. R. KARTHIK RECHAN
Date: 14/03/2022
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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID :
Project Name : CP-RW-2022-03-07-06 Date: 15-03-2022
: Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 12-03-2022
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 12-03-2022
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	325	325	3.0	97.0	95-100
22.4	3488	3813	34.7	65.3	60-80
11.2	2055	5868	53.3	46.7	40-60
4.75	2014	7882	71.7	28.3	25-40
2.36	1011	8893	80.8	19.2	15-30
0.6	645	9538	86.7	13.3	8-22
0.075	1021	10559	96.0	4.0	0-5

* The results obtained are satisfactory as per standard requirements.

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Sig. *Karthik Rechan*
Date *15/03/2022*
Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID :
Project Name : CP-RW-2022-03-07-06 Date: 17-03-2022
: Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 14-03-2022
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 14-03-2022
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	318	318	2.9	97.1	95-100
22.4	3745	4063	36.9	63.1	60-80
11.2	2152	6215	56.5	43.5	40-60
4.75	1865	8080	73.5	26.5	25-40
2.36	1145	9225	83.9	16.1	15-30
0.6	788	10013	91.0	9.0	8-22
0.075	758	10771	97.9	2.1	0-5

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN, MALLESWARAM - 106

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID :
Project Name : CP-RW-2022-03-07-06 Date: 18-03-2022
: Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 15-03-2022
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 15-03-2022
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	3644	3946	35.9	64.1	60-80
11.2	2047	5993	54.5	45.5	40-60
4.75	1985	7978	72.5	27.5	25-40
2.36	1165	9143	83.1	16.9	15-30
0.6	769	9912	90.1	9.9	8-22
0.075	702	10614	96.5	3.5	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2022-03-07-06 Date: 18-03-2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division (Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 15-03-2022
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 15-03-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.5%	
Combined Flakiness and Elongation Index for WMM	24.4%	

• The results obtained are satisfactory as per standard requirements.

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ಮಹಿ ಲೇಔಟ್
ಚಿಕ್ಕಬೆಟ್ಟಹಳ್ಳಿ ಲೇಔಟ್
ಎಂ.ಎಸ್. ಲೇಔಟ್
ಯೆಲಾಹಂಕ ನ್ಯೂ ಟೌನ್
ವಾರ್ಡ್ ನಂ. 03
ಬೆಂಗಳೂರು - 560024



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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID :
Project Name : CP-RW-2022-03-07-06 Date: 15-03-2022
: Restoration and Improvements of Balance roads of AMS layout,
Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout
and surrounding areas in ward No.03 of Yelahanka New town Sub
division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe
Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 12-03-2022
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 12-03-2022
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	248	248	2.3	97.7	95-100
22.4	3540	3788	34.4	65.6	60-80
11.2	2045	5833	53.0	47.0	40-60
4.75	1765	7598	69.1	30.9	25-40
2.36	1265	8863	80.6	19.4	15-30
0.6	765	9628	87.5	12.5	8-22
0.075	845	10473	95.2	4.8	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID :
Project Name : CP-RW-2022-03-07-06 Date: 16-03-2022
: Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 14-03-2022
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 14-03-2022
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	198	198	1.8	98.2	95-100
22.4	2412	2610	23.7	76.3	60-80
11.2	2365	4975	45.2	54.8	40-60
4.75	1765	6740	61.3	38.7	25-40
2.36	1455	8195	74.5	25.5	15-30
0.6	1658	9853	89.6	10.4	8-22
0.075	798	10651	96.8	3.2	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2022-03-07-06 Date: 15-03-2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division (Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 12-03-2022
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 12-03-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	25.7%	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2022-03-07-06 Date: 16-03-2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 14-03-2022
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 14-03-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.7%	
Combined Flakiness and Elongation Index for WMM	24.3%	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager



DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2022-03-07-06 Date: 16-03-2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division (Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 14-03-2022
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 14-03-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.1%	
Combined Flakiness and Elongation Index for WMM	22.0%	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

Page 1/1
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-03-07-06	Date: 16-03-2022
Project Name	:	Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).	
Agency	:	Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024	
Customer Reference	:	BBMP/EE/YNK D/EPMT-08/W.O/109/2021-22	
Date of Receipt	:	14-03-2022	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	14-03-2022	

Result:

Result:		
Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.1%	
Combined Flakiness and Elongation Index for WMM	23.8%	

• The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಧ್ಯಯನ
ಯುಜಿಆರ್ ಅಡ್ಡನೆಗೆ ಅಡವಿಬೀದಿ
ಬಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-106



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Authorized Signatory
Quality Manager

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•End of Report•



TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-03-07-06 Date: 16-03-2022
Project Name : Restoration and Improvements of Balance roads of AMS layout, Venugopal layout, Akashvani layout, Chikkabettahalli layout, Mahi layout and surrounding areas in ward No.03 of Yelahanka New town Sub division(Package No.04).
Agency : Sri.Gopi Reddy, No.13, Ground Floor, Sai Bab temple road, Opp Coffe Board Layout, Mariyanna Palya, Bangalore-560024
Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/109/2021-22
Date of Receipt : 14-03-2022
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 14-03-2022
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	245	245	2.2	97.8	95-100
22.4	2758	3003	27.3	72.7	60-80
11.2	2445	5448	49.5	50.5	40-60
4.75	2365	7813	71.0	29.0	25-40
2.36	1038	8851	80.5	19.5	15-30
0.6	988	9839	89.4	10.6	8-22
0.075	645	10484	95.3	4.7	0-5

* The results obtained are satisfactory as per standard requirements.

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